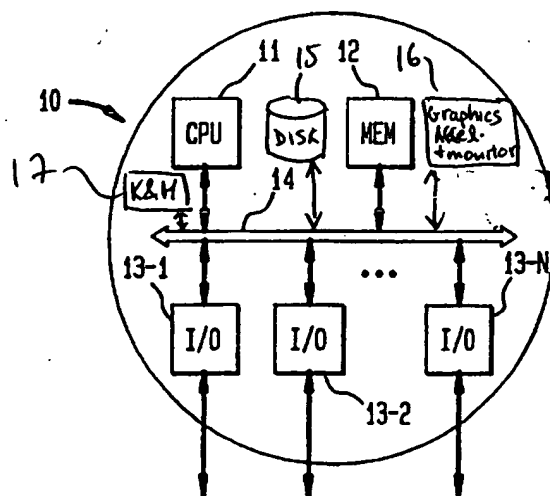
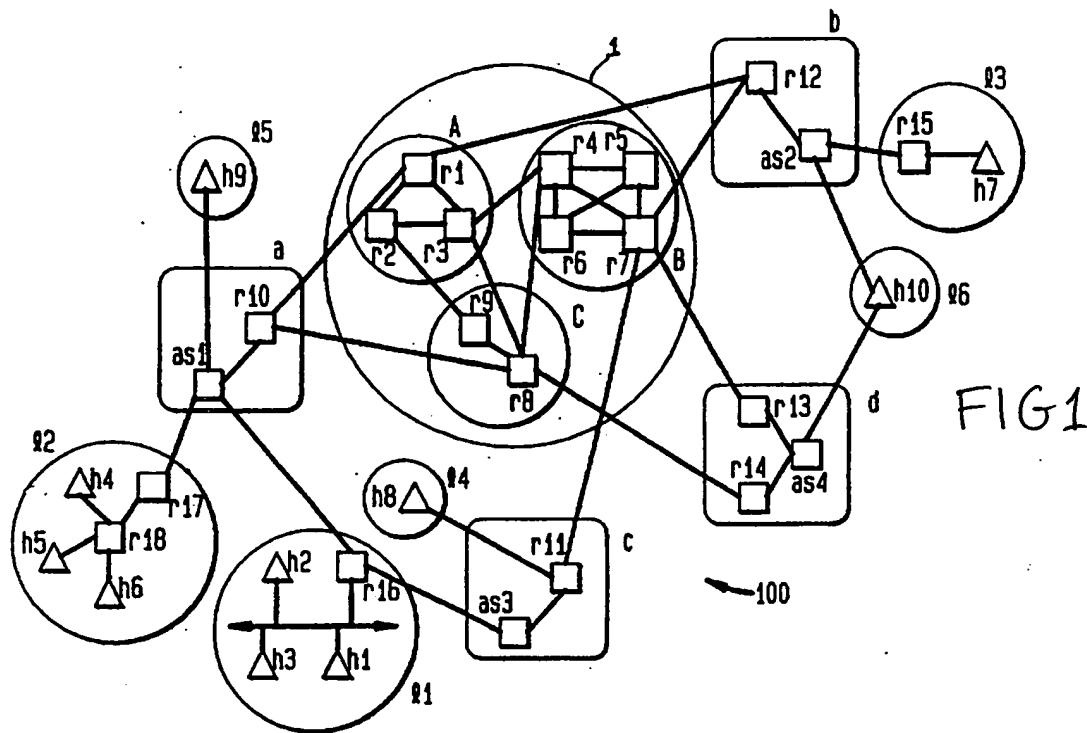
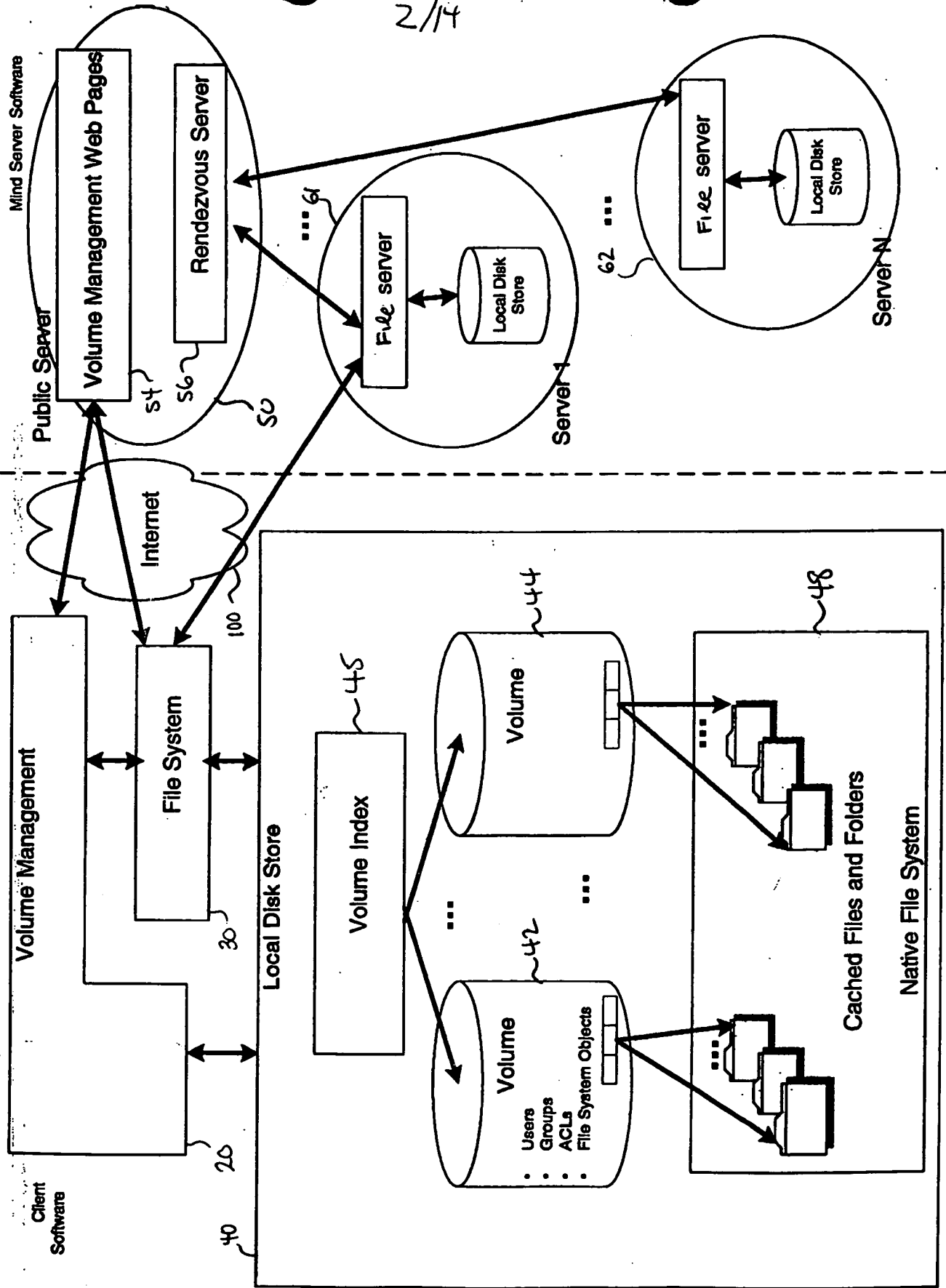


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Desktop

My Computer ~ 1032

3 1/2 Floppy (A:) ~ 1032

(C:) ~ 1032

(D:)

Win98 (E:) ~ 1032

LetsWork on @V-Joe! (F:)

Printers

Control Panel

DialUp Networking

Scheduled Tasks

Web Folders 1032

My Documents 1032

# Invite Process

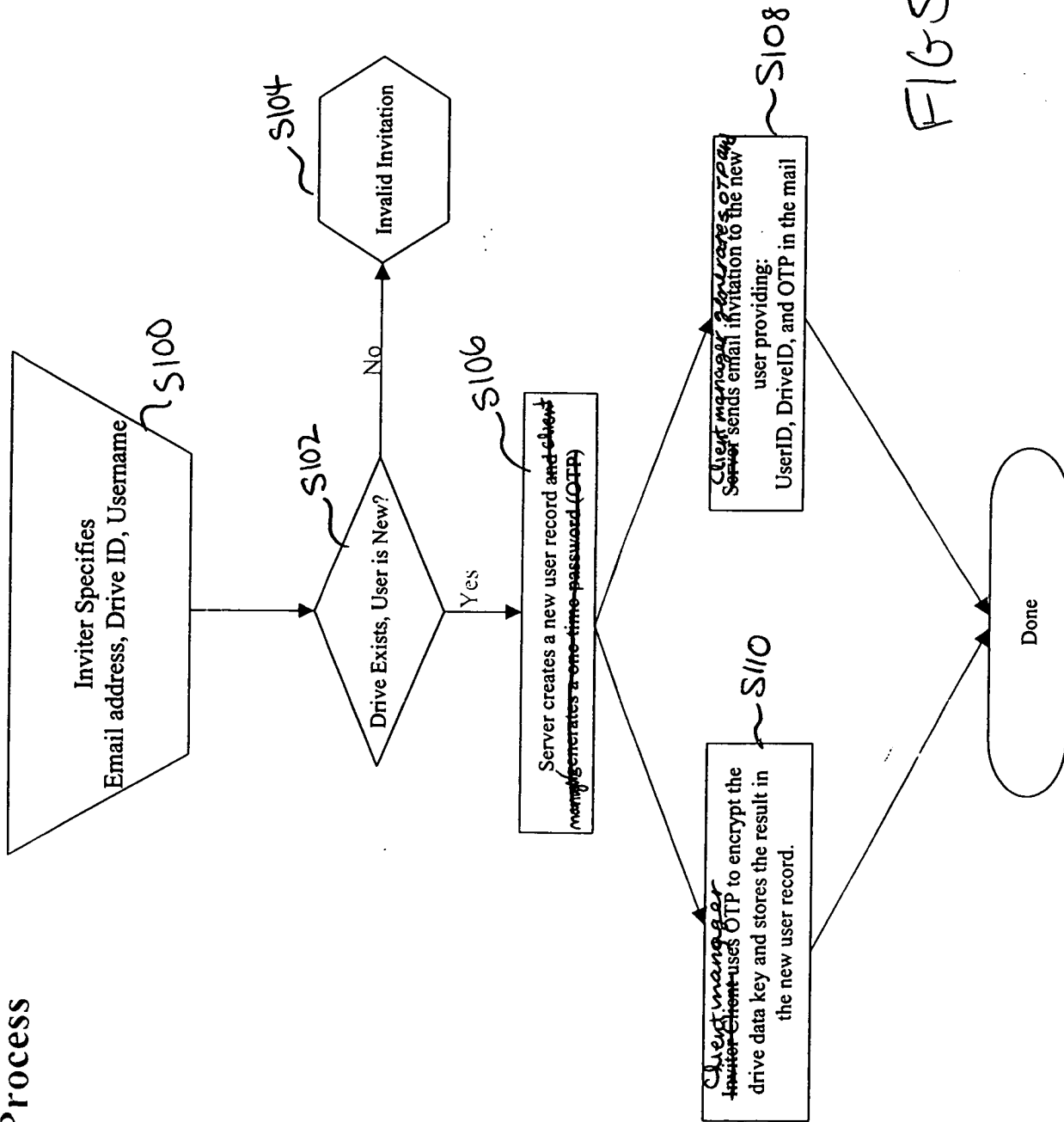


FIG 5

# Join Process

Click invite mail URL containing  
User ID, Drive ID, OTP  
and optionally S120

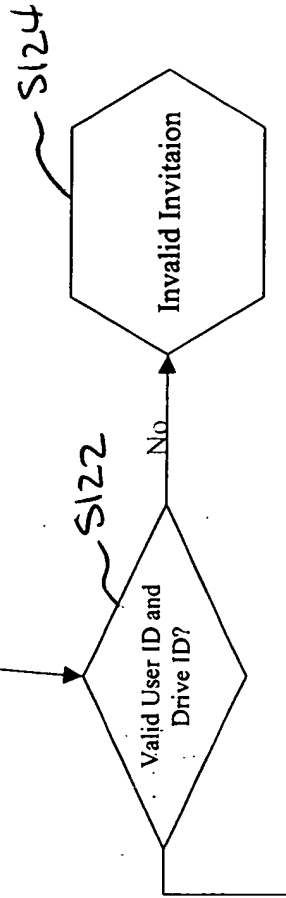


FIG 6A

Client Side

•Create drive container.  
•Generate Public/Private key pair  
•Transmit Public key to server

S126

Server Side

S128

Update new user record with  
Public Key

S130

Encrypt the OTP encrypted data key  
using the new user's public key:  
 $Pu_C(OTP(Data Key))$

S132

Download user record and decrypt the data key:  
 $Pr_C(Pu_C(OTP(Data Key)))$

S134

Encrypt data key with private key  
and update user record:  
 $Pr_C(Data Key)$

S136

Receive Updated User Record

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2Phase Join Process

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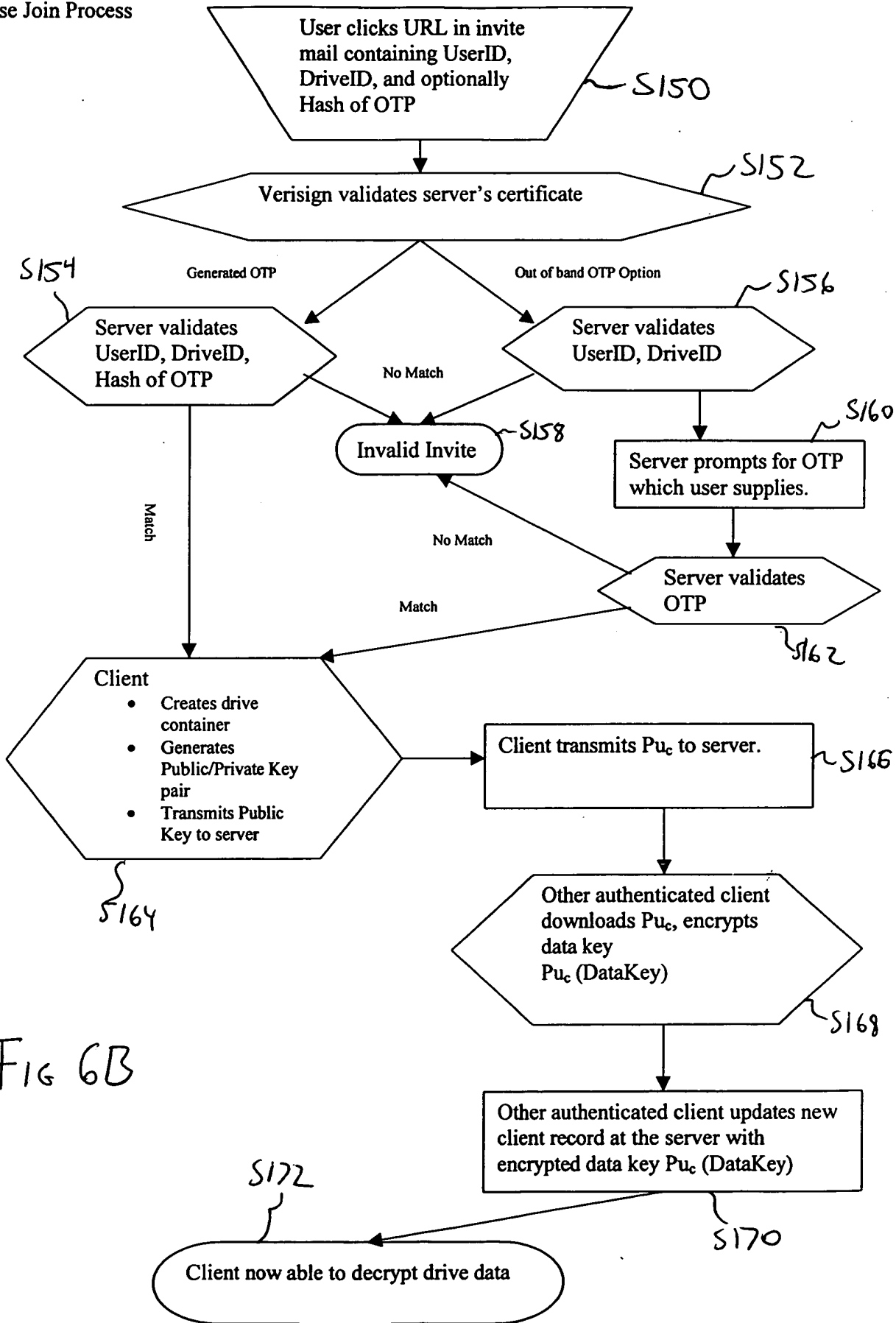


FIG 6B

# Authentication

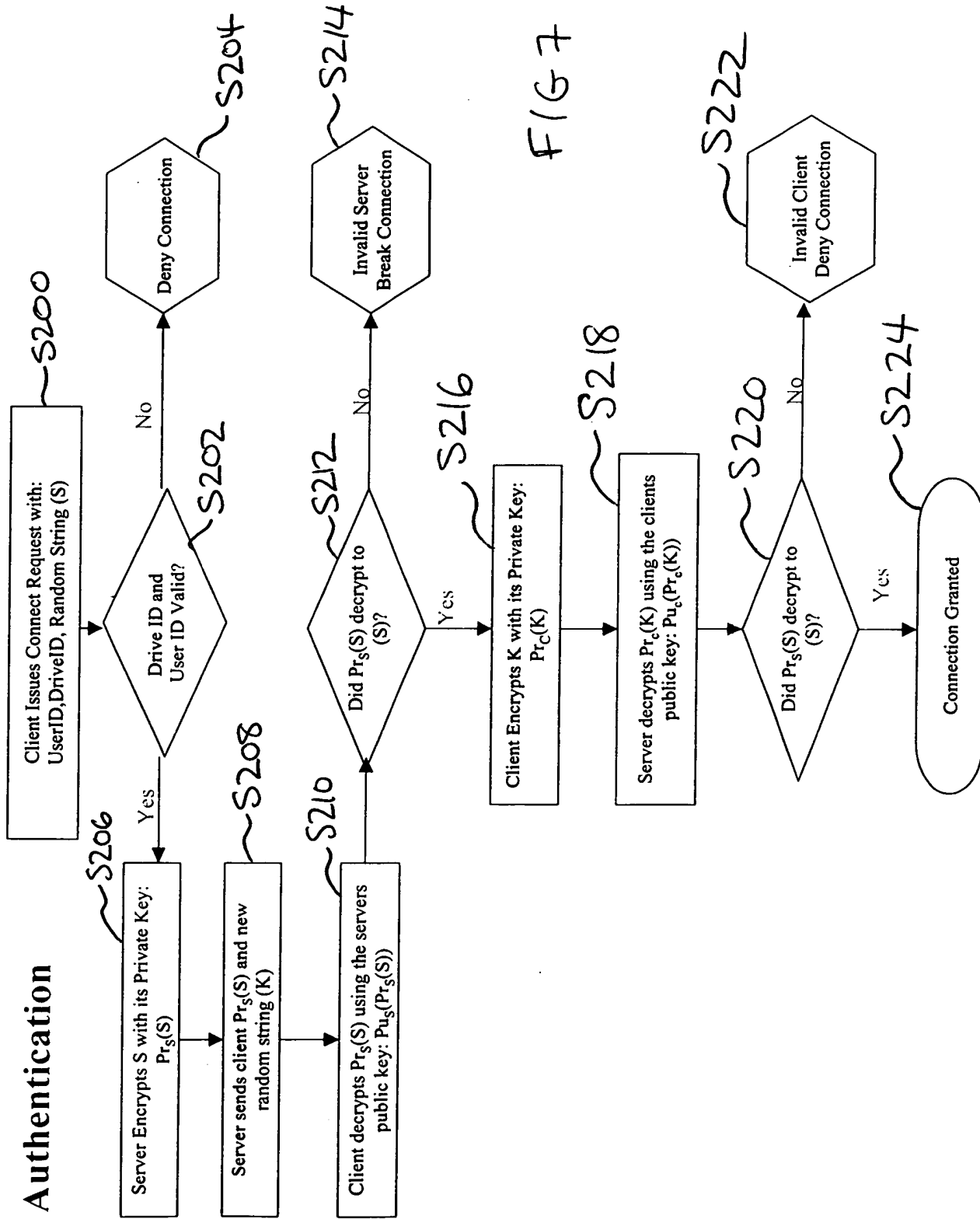


FIG 7

# File Upload Process

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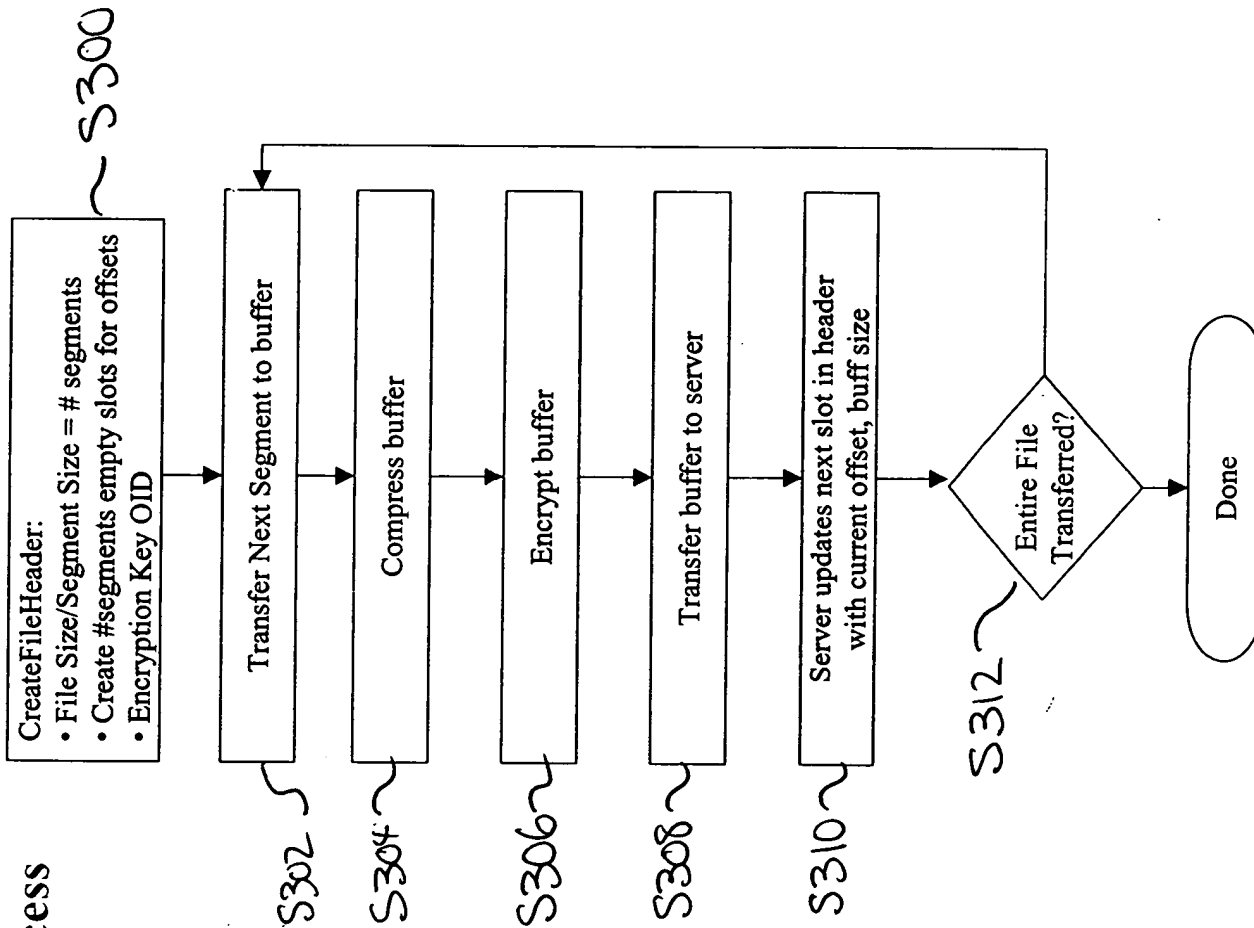
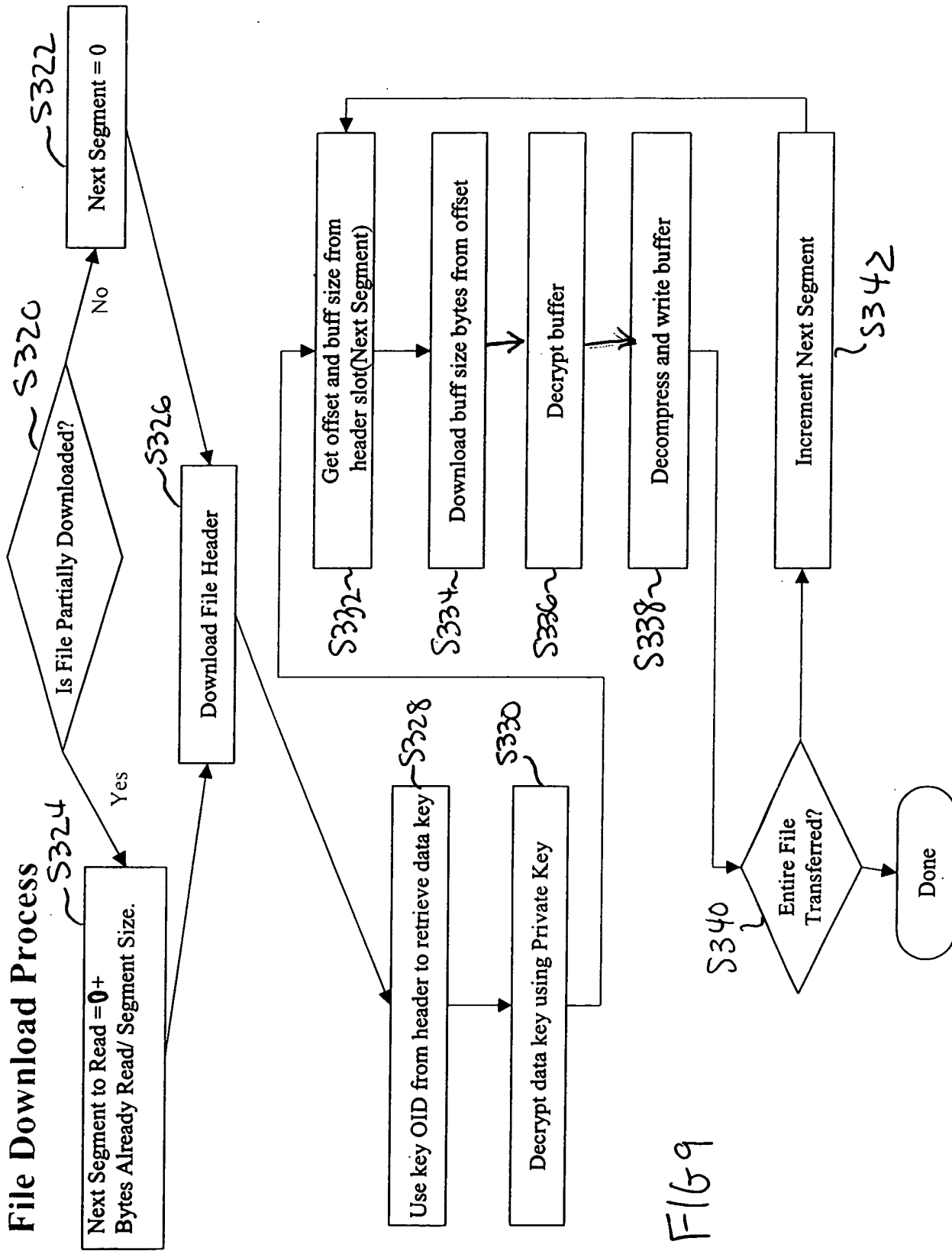


FIG 8



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# File Download Process



F169

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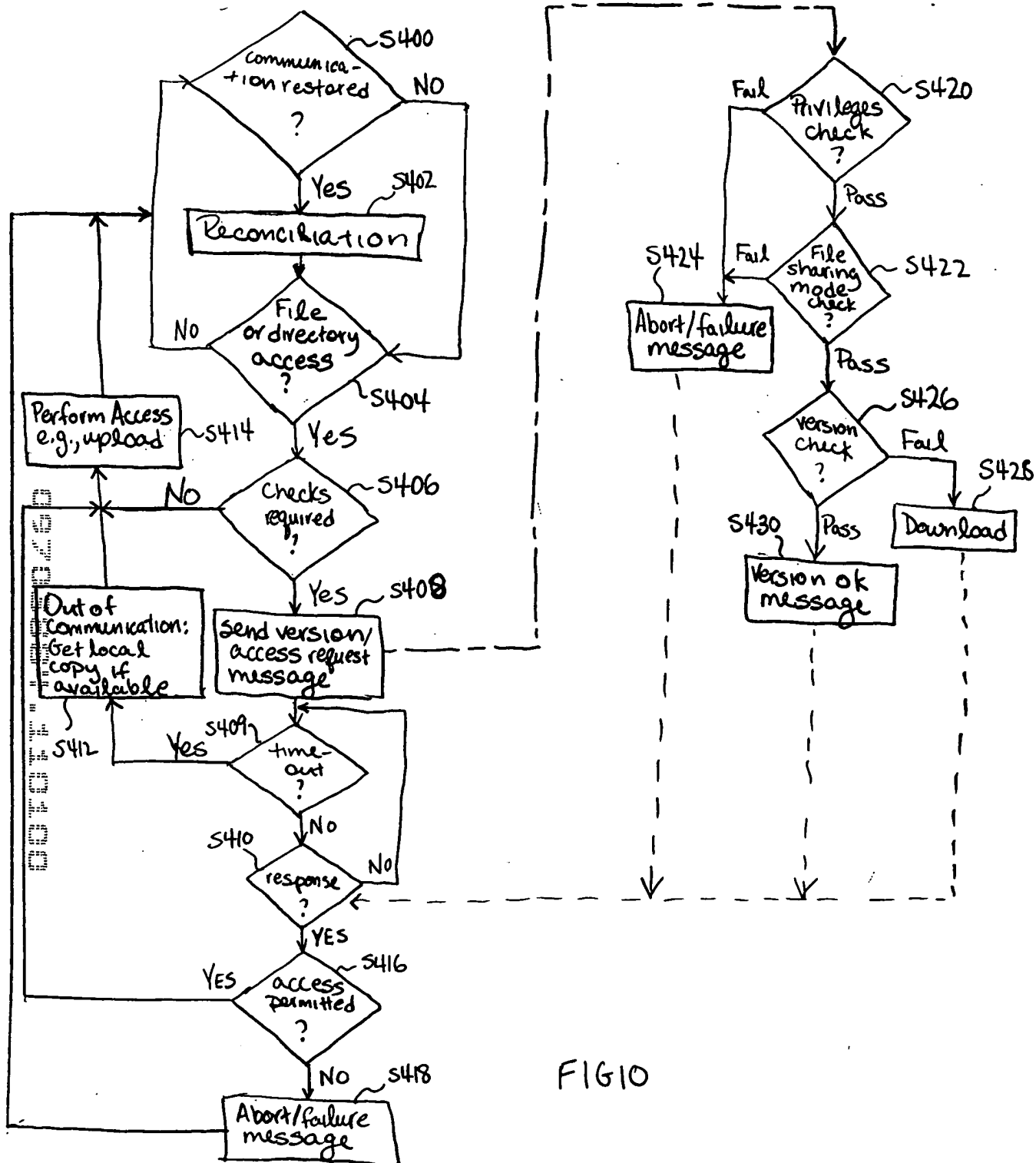


FIG 10

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FIG 11

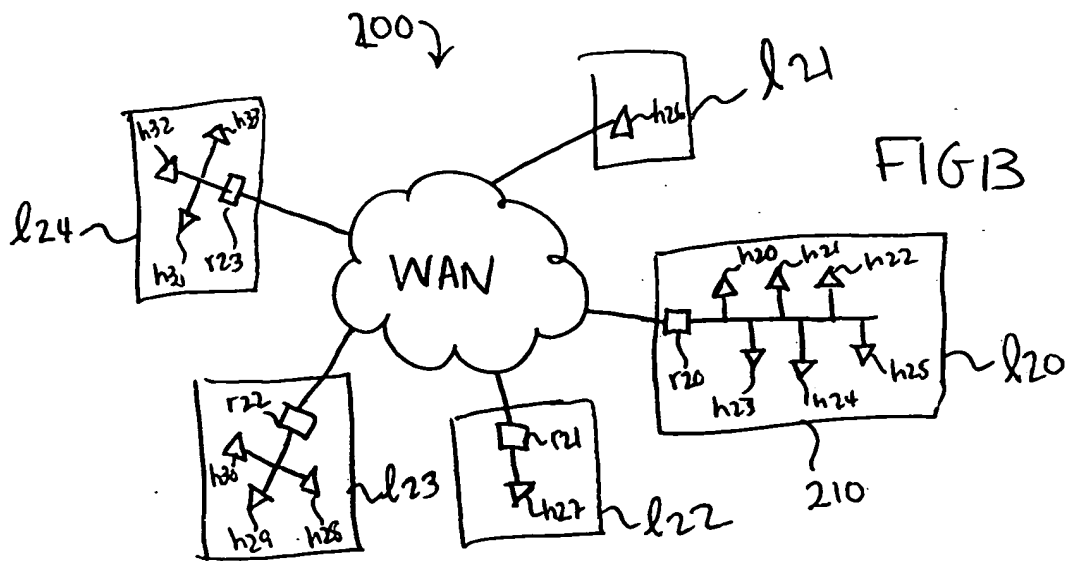
		C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>	C <sub>5</sub>
		File unchanged	File changed	File renamed or moved	File deleted	File's directory deleted
R <sub>1</sub>	File unchanged	No action	Invalidate local file	Rename or move locally cached file	Delete locally cached file	Delete locally cached file
R <sub>2</sub>	File changed	Upload client file	Move client file to the Conflict Bin & invalidate local file	Move client file to the Conflict Bin & upload it	Move client file to the Conflict Bin & upload it	Move client file to the Conflict Bin & upload it
R <sub>3</sub>	File renamed or moved	Rename or move file at server	Move server file to the Conflict Bin	Put warning in Conflict Bin (unless identical rename/move)	Move file to the Conflict Bin & upload file	Move client file to the Conflict Bin & upload it
R <sub>4</sub>	File deleted	Delete file at server	Move server file to the Conflict Bin	Ignore delete; put warning in Conflict Bin	No action	No action
R <sub>5</sub>	File's directory deleted	Delete file at server	Move server file to the Conflict Bin	Move server file to the Conflict Bin & download it	No action	No action

FIG 12

		C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>	C <sub>5</sub>
		Directory unchanged	Directory attribute changed	Added child file or directory	Directory renamed or moved	Directory deleted
R <sub>1</sub>	Directory unchanged	No action	Download changed attribute	Download new dir entry	Rename or move locally cached directory	Delete locally cached directory
R <sub>2</sub>	Directory attribute changed	Upload changed attribute	Put warning in Conflict Bin and keep server attribute or later timestamp	Download new dir entry	Rename or move locally cached directory; upload change	Delete locally cached directory
R <sub>3</sub>	Added child file or directory	Upload new dir entry	If compatible, upload dir entry & download attr change. Else move new local entry to Conflict Bin.	If compatible, upload & download dir entry changes. Else move new local entry to Conflict Bin.	Rename or move local directory; upload new dir entry	Move new file/dir to Conflict Bin; delete local directory
R <sub>4</sub>	Directory renamed or moved	Rename or move directory at server	Rename or move server directory; download attr change	Rename or move directory at server; download new dir entry	Put warning in Conflict Bin (unless identical rename/move)	Put warning in Conflict Bin & upload directory
R <sub>5</sub>	Directory deleted	Delete directory at server	Delete directory at server	Move new file/dir to Conflict Bin; delete dir at server	Put warning in Conflict Bin & download directory	No Action

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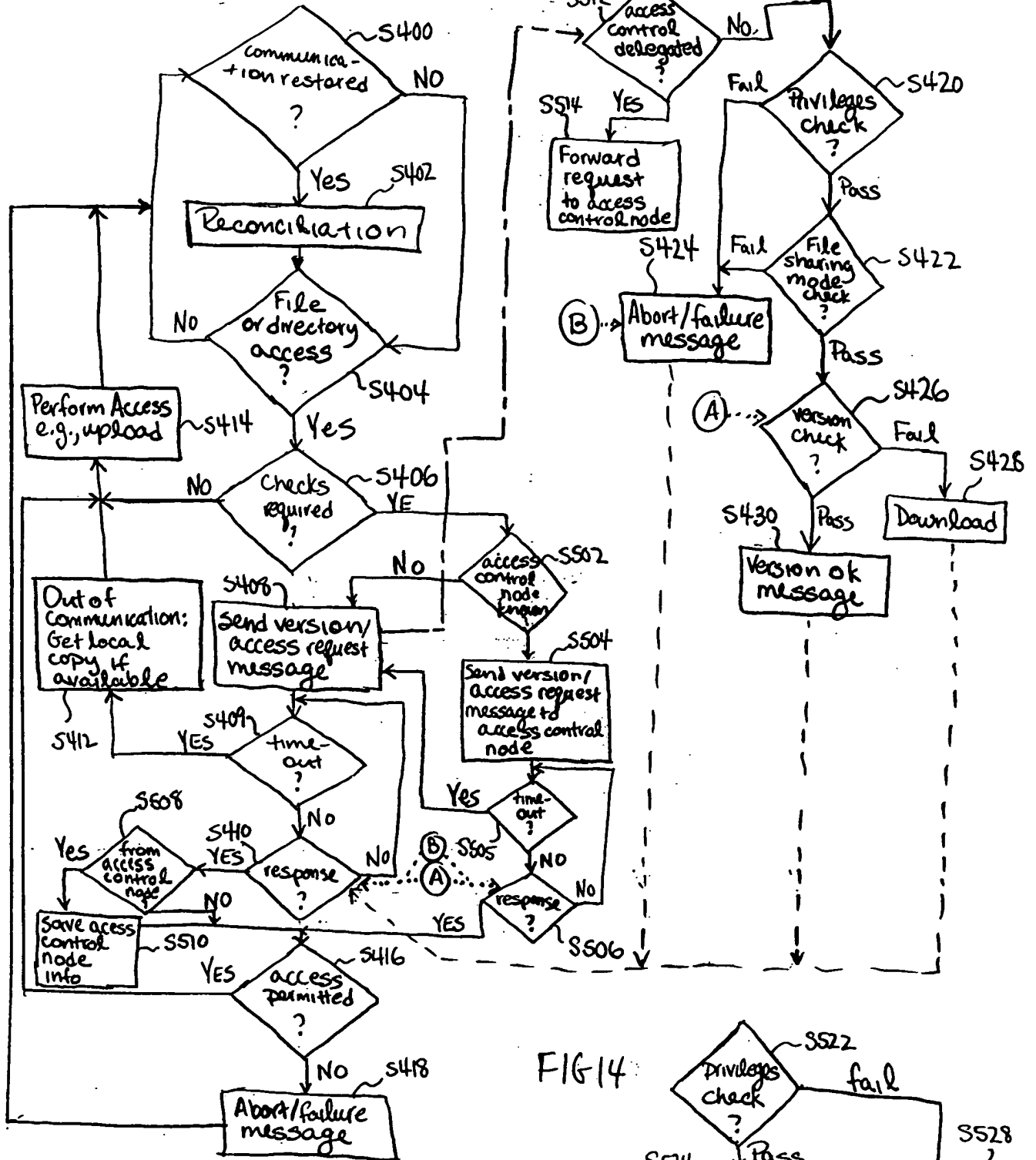
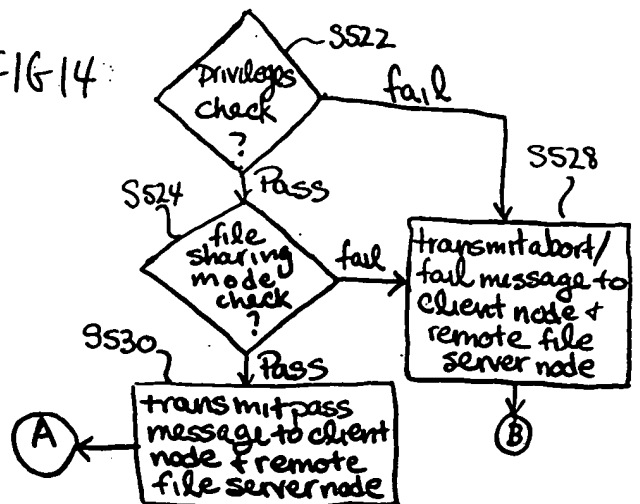


FIG 14



[illegible]